		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995			
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300			
4. AWARD NO.: N00014-12-1-0229		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:			
		5. MODIFICATION NO.: N/A				6. MODIFICATION TYPE: New	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 12PR03939-00			
				10. PROPOSAL DATE: 27-SEP-11		11. ACTIVITY TYPE: onr	
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. EDI/EFT NUMBER: 7108AB			
						14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13	
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires					
13e. TELEPHONE NUMBER: (413) 5450698				13f. EMAIL ADDRESS: sprague@resgo.umass.edu		16. FUNDING	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A		18. PERIOD OF PERFORMANCE 01-JAN-12 THROUGH 31-DEC-14		19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)			
						20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: DEREK R LOVLEY	
20b. TELEPHONE NUMBER: (413) 5459651		20c. EMAIL ADDRESS: dlovley@microbio.umass.edu		21d. TELEPHONE NUMBER: (703) 696-4504			
						22. AWARDING OFFICE CONTACT 22a. NAME: Elizabeth Ford	
22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		22d. TELEPHONE NUMBER: (703) 696-2576		22e. EMAIL ADDRESS: FORDE@ONR.NAVY.MIL			
						25a. PAYING OFFICE: DFAS COLUMB-NAVY ACQ HQ0251 COLUMBUS, OH 43213	

AWARD NO. N00014-12-1-0229	<b>AWARD/MODIFICATION</b>	MODIFICATION NO.	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment			
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>			
Full Delegation			
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found as described below.			
DOCUMENT The following documents may be found at: <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a>  UAAC Acceptance C November 2003 Agency Specific February 2011 UAWA Award A November 2003 Core June 2011			
30. OPTIONS	OPTION NO.	AMOUNT	PERIOD
(1)			
(2)			
(3)			
(4)			
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".			
ADDRESSEE	REPORT TYPE	COPIES	
See block #21	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298	1 1	
See block #23a	Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11	1 1 1 1	
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298	1 1	
See block #26a	Report of Inventions and Subcontracts - DD 882	1	
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320	Final Technical Report Interim Research Performance Report (As Required) with SF298	1 1	
32. FOR THE REGIMENT		33. FOR THE UNITED STATES OF AMERICA	
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD		33a. SIGNATURE OF AWARDOFFICER (b) (6)	
32b. NAME AND TITLE OF SIGNER	32c. DATE SIGNED	33b. NAME AND TITLE OF AWARDOFFICER Elizabeth Ford	33c. DATE SIGNED 13-JAN-12


## FINANCIAL ACCOUNTING DATA SHEET - NAVY

[illegible]

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229		2. SPIIN (CRITICAL)	3. MOD (CRITICAL)	4. PR NUMBER 12PR03939-00		
5. CLIN/SLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			8. AMOUNT (CRITICAL)	NAVY INTERNAL USE ONLY REF DOC/ACRN
		This page is intentionally blank				
					PAGE TOTAL \$ .00	
					GRAND TOTAL \$ .00	
PREPARED/AUTHORIZED BY:		COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE				
DATE:		BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:				

<b>AWARD NO.</b> N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	<b>MODIFICATION NO.</b>
--------------------------------------	-----------------------------	-------------------------

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995																									
				3b. CFDA: 12.300																									
1. INSTRUMENT TYPE: Grant		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:																									
4. AWARD NO.: N00014-12-1-0229		5. MODIFICATION NO.: P00006		6. MODIFICATION TYPE: Increment																									
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 15PR02066-00																									
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. EDI/EFT NUMBER: 7108AB																									
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		13e. TELEPHONE NUMBER: (413) 5450698		13f. EMAIL ADDRESS: sprague@resgs.umass.edu																									
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13																													
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires																													
16. FUNDING				17. CURRENT FUNDING PERIOD																									
<table border="1"> <thead> <tr> <th></th> <th>ACTIVITY/AGENCY SHARE</th> <th>RECIPIENT SHARE</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td>PREVIOUSLY OBLIGATED:</td> <td>\$540,791.00</td> <td>\$ .00</td> <td>\$540,791.00</td> </tr> <tr> <td>OBLIGATED BY THIS ACTION:</td> <td>\$97,558.00</td> <td>\$ .00</td> <td>\$97,558.00</td> </tr> <tr> <td>TOTAL OBLIGATED ON AWARD:</td> <td>\$638,349.00</td> <td>\$ .00</td> <td>\$638,349.00</td> </tr> <tr> <td>FUTURE FUNDING:</td> <td>\$ .00</td> <td>\$ .00</td> <td>\$ .00</td> </tr> <tr> <td>GRANT TOTAL:</td> <td>\$638,349.00</td> <td>\$ .00</td> <td>\$638,349.00</td> </tr> </tbody> </table>					ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	PREVIOUSLY OBLIGATED:	\$540,791.00	\$ .00	\$540,791.00	OBLIGATED BY THIS ACTION:	\$97,558.00	\$ .00	\$97,558.00	TOTAL OBLIGATED ON AWARD:	\$638,349.00	\$ .00	\$638,349.00	FUTURE FUNDING:	\$ .00	\$ .00	\$ .00	GRANT TOTAL:	\$638,349.00	\$ .00	\$638,349.00	N/A THROUGH N/A	
	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL																										
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OBLIGATED BY THIS ACTION:	\$97,558.00	\$ .00	\$97,558.00																										
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GRANT TOTAL:	\$638,349.00	\$ .00	\$638,349.00																										
				18. PERIOD OF PERFORMANCE 01-JAN-12 THROUGH 31-DEC-14																									
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)																													
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: DEREK R LOVLEY		21. TECHNICAL REPRESENTATIVE 21a. NAME: Linda A. Chrisey 21c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		21b. CODE: ONR 342																									
20b. TELEPHONE NUMBER: (413) 5459651		20c. EMAIL ADDRESS: dlovley@microbio.umass.edu		21d. TELEPHONE NUMBER: (703) 696-4504																									
21e. EMAIL ADDRESS: LINDA.CHRISBY@NAVY.MIL		22. AWARDING OFFICE CONTACT 22a. NAME: Elizabeth Ford 22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		22b. CODE: ONR BD255																									
22d. TELEPHONE NUMBER: (703) 696-2576		22e. EMAIL ADDRESS: ELIZABETH.FORD@NAVY.MIL		23a. ADMINISTRATIVE OFFICE:  ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605																									
23b. CODE: N62879		24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE:  DFAS COLUMB. NORTH ENTL-HQ0337 COLUMBUS, OH 43218-2266																									
25b. CODE: HQ0337		26a. PATENT OFFICE:  Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014																									

AWARD NO. N00014-12-1-0229		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00006	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>					
Full Delegation					
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30. OPTIONS      OPTION NO.      AMOUNT      PERIOD					
(1)					
(2)					
(3)					
(4)					
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ADDRESSEE		REPORT TYPE		COPIES	
See block #21		Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298		1 1	
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11		1 1 1 1	
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298		1 1	
See block #26a		Report of Inventions and Subcontracts - DD 882		1	
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Interim Research Performance Report (As Required) with SF298		1 1	
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD			33a. SIGNATURE OF AWARDOFFICER  (b) (6)		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER Ellen Simonoff	
				33c. DATE SIGNED 28-OCT-14	

# FINANCIAL ACCOUNTING DATA SHEET - NAVY


FINANCIAL ACCOUNTING DATA SHEET - NAVY													
1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229						2. SPIN (CRITICAL)		3. MOD (CRITICAL) P00006		4. PR NUMBER 15PR02066-00			
CLINSLN	6. LINE OF ACCOUNTING							AMOUNT (CRITICAL)		NAVY INTERNAL USE ONLY REF DDCIACRN  PR#15PR02066-00 FRC:4512			
	A. ACRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFW	G. SA				H. AAA (CRITICAL)	I. IT	J. PAA
	AE	1751319	WLAE	410	EA	349	0	068342	2D	000000	00000 000 5120	\$97,558.00	
											PAGE TOTAL	\$97,558.00	
											GRAND TOTAL	\$97,558.00	

**PREPARED/AUTHORIZED BY:** \_\_\_\_\_ **COMPTROLLER APPROVAL:** \_\_\_\_\_  
**DATE:** \_\_\_\_\_ **FOR FISCAL DATA AND SIGNATURE** BY \_\_\_\_\_ **for COMPTROLLER, ONR CONTRACT REVIEWED**  
**DATE:** \_\_\_\_\_





<b>AWARD NO.</b> N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	<b>MODIFICATION NO.</b> P00006	
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		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 495 Summer Street Suite 627 Boston, MA 02210-2109																									
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300																									
4. AWARD NO.: N00014-12-1-0229		5. MODIFICATION NO.: A00001		6. MODIFICATION TYPE: Admin Mod																									
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 14PR00716-02																									
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. EDI/EFT NUMBER: 7108AB																									
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">16. FUNDING</th> <th style="width: 20%;">ACTIVITY/AGENCY SHARE</th> <th style="width: 20%;">RECIPIENT SHARE</th> <th style="width: 10%;">TOTAL</th> </tr> </thead> <tbody> <tr> <td>PREVIOUSLY OBLIGATED:</td> <td style="text-align: right;">\$540,791.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$540,791.00</td> </tr> <tr> <td>OBLIGATED BY THIS ACTION:</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$.00</td> </tr> <tr> <td>TOTAL OBLIGATED ON AWARD:</td> <td style="text-align: right;">\$540,791.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$540,791.00</td> </tr> <tr> <td>FUTURE FUNDING:</td> <td style="text-align: right;">\$97,558.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$97,558.00</td> </tr> <tr> <td>GRANT TOTAL:</td> <td style="text-align: right;">\$638,349.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$638,349.00</td> </tr> </tbody> </table>				16. FUNDING	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	PREVIOUSLY OBLIGATED:	\$540,791.00	\$.00	\$540,791.00	OBLIGATED BY THIS ACTION:	\$.00	\$.00	\$.00	TOTAL OBLIGATED ON AWARD:	\$540,791.00	\$.00	\$540,791.00	FUTURE FUNDING:	\$97,558.00	\$.00	\$97,558.00	GRANT TOTAL:	\$638,349.00	\$.00	\$638,349.00	17. CURRENT FUNDING PERIOD N/A THROUGH N/A	
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21e. EMAIL ADDRESS: LINDA.CHRISEY@NAVY.MIL		22. AWARDOFFICE CONTACT 22a. NAME: Valarie A. Woodbury 22c. ADDRESS: Office of Naval Research 495 Summer Street Suite 627 Boston, MA 02210-2109		22b. CODE: ONR BD244																									
22d. TELEPHONE NUMBER: (617) 753-4776		22e. EMAIL ADDRESS: VALARIE.WOODBURY@NAVY.MIL		23a. ADMINISTRATIVE OFFICE: ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605																									
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS COLUMB. NORTH ENTL-HQ0337 COLUMBUS, OH 43218-2266		25b. CODE: HQ0337																									
26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014																											


AWARD NO. N00014-12-1-0229		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. A00001	
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32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD			33a. SIGNATURE OF AWARDOFFICER (b) (6)		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER Valarie A. Woodbury	
				33c. DATE SIGNED 28-JUL-14	



# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229		2. SPIN (CRITICAL)	3. MOD (CRITICAL) A00001	4. PR NUMBER 14PR00716-02	NAVY INTERNAL USE ONLY REF DOC/ACRN	
5. CLINSLIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			8. AMOUNT (CRITICAL)	
		This page is intentionally blank				
					PAGE TOTAL \$ .00	
					GRAND TOTAL \$ .00	
PREPARED/AUTHORIZED BY:		COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE: _____				

AWARD NO. N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. A00001
<p>The purpose of this administrative modification is to: (A) change the payment office and (B) add instructions for numbering vouchers:</p> <p>A. The payment office is hereby changed:</p> <p>From: DFAS COLUMBUS NAVY ACQ 3990 E. BROAD STREET BLDG. 21 COLUMBUS, OH 43213 CODE HQ0251</p> <p>To: DFAS-COLUMBUS CENTER NORTH ENTITLEMENT OPERATIONS P.O. BOX 182266 COLUMBUS, OH 43218-2266 CODE HQ0337</p> <p>B. The following payment instructions are hereby added:</p> <p>NUMBERING OF VOUCHERS SUBMITTED TO MOCAS PAYMENT OFFICES Vouchers submitted to this payment office must be submitted using the following format:</p> <ul style="list-style-type: none"><li>- Voucher numbers must begin with BVN.</li><li>- Voucher number must be 7 characters</li><li>- The format must be BVNX###, where X = Alpha or Numeric character and # = Numeric character.</li></ul>		

		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995																									
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300																									
4. AWARD NO.: N00014-12-1-0229		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:																									
		5. MODIFICATION NO.: P00005		6. MODIFICATION TYPE: Increment		7. PR NO.: 14PR00716-01																							
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A	10. PROPOSAL DATE: 27-SEP-11	11. ACTIVITY TYPE:	12. PROGRAM TYPE: onr																								
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4	13c. EDI/EFT NUMBER: 7108AB	14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13																									
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		13e. TELEPHONE NUMBER: (413) 5450698																											
13f. EMAIL ADDRESS: sprague@reags.umass.edu																													
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20%;">16. FUNDING</th> <th style="width: 20%;">ACTIVITY/AGENCY SHARE</th> <th style="width: 20%;">RECIPIENT SHARE</th> <th style="width: 20%;">TOTAL</th> </tr> </thead> <tbody> <tr> <td>PREVIOUSLY OBLIGATED:</td> <td style="text-align: right;">\$401,348.10</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$401,348.10</td> </tr> <tr> <td>OBLIGATED BY THIS ACTION:</td> <td style="text-align: right;">\$139,442.90</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$139,442.90</td> </tr> <tr> <td>TOTAL OBLIGATED ON AWARD:</td> <td style="text-align: right;">\$540,791.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$540,791.00</td> </tr> <tr> <td>FUTURE FUNDING:</td> <td style="text-align: right;">\$97,558.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$97,558.00</td> </tr> <tr> <td>GRANT TOTAL:</td> <td style="text-align: right;">\$638,349.00</td> <td style="text-align: right;">\$.00</td> <td style="text-align: right;">\$638,349.00</td> </tr> </tbody> </table>				16. FUNDING	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	PREVIOUSLY OBLIGATED:	\$401,348.10	\$.00	\$401,348.10	OBLIGATED BY THIS ACTION:	\$139,442.90	\$.00	\$139,442.90	TOTAL OBLIGATED ON AWARD:	\$540,791.00	\$.00	\$540,791.00	FUTURE FUNDING:	\$97,558.00	\$.00	\$97,558.00	GRANT TOTAL:	\$638,349.00	\$.00	\$638,349.00	17. CURRENT FUNDING PERIOD N/A THROUGH N/A	
16. FUNDING	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL																										
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				18. PERIOD OF PERFORMANCE 01-JAN-12 THROUGH 31-DEC-14																									
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)																													
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20b. TELEPHONE NUMBER: (413) 5459651	20c. EMAIL ADDRESS: dlovley@microbio.umass.edu	21d. TELEPHONE NUMBER: (703) 696-4504	21e. EMAIL ADDRESS: LINDA.CHRISEY@NAVY.MIL																										
22. AWARDDING OFFICE CONTACT 22a. NAME: Elizabeth Ford 22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		22b. CODE: ONR BD255	23a. ADMINISTRATIVE OFFICE: ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605		23b. CODE: N62879																								
22d. TELEPHONE NUMBER: (703) 696-2576	22e. EMAIL ADDRESS: ELIZABETH.FORD@NAVY.MIL	23c. CODE: N62879																											
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS CLEVELAND NAVY-HQ0251 CLEVELAND, OH 44199-8022	25b. CODE: HQ0251	26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995																									
				26b. CODE: N00014																									



AWARD NO. N00014-12-1-0229		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00005	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>					
Full Delegation					
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DOCUMENT The following documents may be found at: <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a> Standard Terms and Conditions for Research Grants - June 2011 (Core) Standard Terms and Conditions for Research Grants - February 2011 (Agency Specific) UAAC UACC Acceptance C November UAWA UAWA Award A					
30. OPTIONS		OPTION NO.	AMOUNT	PERIOD	
(1)					
(2)					
(3)					
(4)					
31. REPORTS: The following reports must be submitted to the indicated addressees, in the indicated quantities, within 90 days following the expiration or termination of the project. Final Technical Reports must have a SF298, Report Documentation Page, accompanying them. Unless otherwise stated in the award/modification, complete Block 12a of the SF298 as follows: "Approved for Public Release; distribution is Unlimited".					
ADDRESSEE		REPORT TYPE			COPIES
See block #21		Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298			1 1
See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11			1 1 1 1
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298			1 1
See block #26a		Report of Inventions and Subcontracts - DD 882			1
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Interim Research Performance Report (As Required) with SF298			1 1
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD			33a. SIGNATURE OF AWARDOFFICER  (b) (6)		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER Ellen Simonoff	
				33c. DATE SIGNED 20-MAR-14	


## FINANCIAL ACCOUNTING DATA SHEET - NAVY

[illegible]

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229		2. SPIN (CRITICAL)	3. MOD (CRITICAL) P00005	4. PR NUMBER 14PR00716-01	NAVY INTERNAL USE ONLY REF DOC/ACRN	
5. CLIN/SIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION		8. AMOUNT (CRITICAL)		
		This page is intentionally blank				
				PAGE TOTAL	\$ . 00	
				GRAND TOTAL	\$ . 00	
PREPARED/AUTHORIZED BY:		COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE				
DATE:		BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:				

AWARD NO. N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00005	

		<h1 style="text-align: center;">AWARD/ MODIFICATION</h1>		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995																									
				3b. CFDA: 12.300																									
1. INSTRUMENT TYPE: Grant		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:																									
4. AWARD NO.: N00014-12-1-0229		5. MODIFICATION NO.: P00004		6. MODIFICATION TYPE: Increment																									
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 14PR00716-00																									
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. ED/EFT NUMBER: 7108AB																									
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		13e. TELEPHONE NUMBER: (413) 5450698		13f. EMAIL ADDRESS: sprague@resgs.umass.edu																									
14. REMITTANCE ADDRESS (IF DIFFERENT FROM BLOCK 13): Same as block #13																													
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires																													
16. FUNDING				17. CURRENT FUNDING PERIOD																									
<table border="1"> <thead> <tr> <th></th> <th>ACTIVITY/AGENCY SHARE</th> <th>RECIPIENT SHARE</th> <th>TOTAL</th> </tr> </thead> <tbody> <tr> <td>PREVIOUSLY OBLIGATED:</td> <td>\$324,549.00</td> <td>\$ .00</td> <td>\$324,549.00</td> </tr> <tr> <td>OBLIGATED BY THIS ACTION:</td> <td>\$76,799.10</td> <td>\$ .00</td> <td>\$76,799.10</td> </tr> <tr> <td>TOTAL OBLIGATED ON AWARD:</td> <td>\$401,348.10</td> <td>\$ .00</td> <td>\$401,348.10</td> </tr> <tr> <td>FUTURE FUNDING:</td> <td>\$237,000.90</td> <td>\$ .00</td> <td>\$237,000.90</td> </tr> <tr> <td>GRANT TOTAL:</td> <td>\$638,349.00</td> <td>\$ .00</td> <td>\$638,349.00</td> </tr> </tbody> </table>					ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL	PREVIOUSLY OBLIGATED:	\$324,549.00	\$ .00	\$324,549.00	OBLIGATED BY THIS ACTION:	\$76,799.10	\$ .00	\$76,799.10	TOTAL OBLIGATED ON AWARD:	\$401,348.10	\$ .00	\$401,348.10	FUTURE FUNDING:	\$237,000.90	\$ .00	\$237,000.90	GRANT TOTAL:	\$638,349.00	\$ .00	\$638,349.00	N/A THROUGH N/A	
	ACTIVITY/AGENCY SHARE	RECIPIENT SHARE	TOTAL																										
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19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)																													
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: DEREK R LOVLEY		21. TECHNICAL REPRESENTATIVE 21a. NAME: Linda A. Chrisey 21c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		21b. CODE: ONR 342																									
20b. TELEPHONE NUMBER: (413) 5459651		20c. EMAIL ADDRESS: dlovley@microbio.umass.edu		21d. TELEPHONE NUMBER: (703) 696-4504																									
21e. EMAIL ADDRESS: LINDA.CHRISEY@NAVY.MIL		22. AWARDING OFFICE CONTACT 22a. NAME: Elizabeth Ford 22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		22b. CODE: ONR BD025																									
22d. TELEPHONE NUMBER: (703) 696-2576		22e. EMAIL ADDRESS: ELIZABETH.FORD@NAVY.MIL		23a. ADMINISTRATIVE OFFICE:  ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605																									
23b. CODE: N62879		24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS COLUMB-NAVY ACQ HQ0251 COLUMBUS, OH 43213																									
25b. CODE: HQ0251		26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995		26b. CODE: N00014																									


AWARD NO. N00014-12-1-0229	<b>AWARD/MODIFICATION</b>	MODIFICATION NO. P00004
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment		
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>  Full Delegation		
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30. OPTIONS    OPTION NO. (1) (2) (3) (4)	AMOUNT	PERIOD
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ADDRESSEE	REPORT TYPE	COPIES
See block #21	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298	1 1
See block #23a	Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11	1 1 1 1
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298	1 1
See block #26a	Report of Inventions and Subcontracts - DD 882	1
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320	Final Technical Report Interim Research Performance Report (As Required) with SF298	1 1
32. FOR THE RECIPIENT 32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD		33. FOR THE UNITED STATES OF AMERICA 33a. SIGNATURE OF AWARING OFFICER (b) (6)
32b. NAME AND TITLE OF SIGNER	32c. DATE SIGNED	33b. NAME AND TITLE OF AWARING OFFICER Ellen Simonoff
		33c. DATE SIGNED 12-NOV-13







<b>AWARD NO.</b> N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	<b>MODIFICATION NO.</b> P00004	
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		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995	
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300	
4. AWARD NO.: N00014-12-1-0229		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:	
		5. MODIFICATION NO.: P00003		6. MODIFICATION TYPE: Increment	
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 13PR02204-01	
13. ISSUED TO 13a. ADDRESS:  UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. ED/EFT NUMBER: 7108AB	
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		10. PROPOSAL DATE: 27-SEP-11			
13e. TELEPHONE NUMBER: (413) 5450698				13f. EMAIL ADDRESS: sprague@resgs.umass.edu	
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:		\$269,577.00		\$0.00	
OBLIGATED BY THIS ACTION:		\$54,972.00		\$54,972.00	
TOTAL OBLIGATED ON AWARD:		\$324,549.00		\$324,549.00	
FUTURE FUNDING:		\$313,800.00		\$313,800.00	
GRANT TOTAL:		\$638,349.00		\$638,349.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 01-JAN-12 THROUGH 31-DEC-14					
19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)					
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: DEREK R LOVLEY		21. TECHNICAL REPRESENTATIVE 21a. NAME: Linda A. Chrisey		21b. CODE: ONR 342	
20b. TELEPHONE NUMBER: (413) 5459651		20c. EMAIL ADDRESS: dlovley@microbio.umass.edu		21c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995	
				21d. TELEPHONE NUMBER: (703) 696-4504	
22. AWARDOFFICE CONTACT 22a. NAME: Elizabeth Ford		22b. CODE: ONR BD025		21e. EMAIL ADDRESS: CHRISL@ONR.NAVY.MIL	
22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		23a. ADMINISTRATIVE OFFICE:  ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605		23b. CODE: N62879	
22d. TELEPHONE NUMBER: (703) 696-2576				22e. EMAIL ADDRESS: FORDE@ONR.NAVY.MIL	
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS COLUMB-NAVY ACQ HQ0251 COLUMBUS, OH 43213		25b. CODE: HQ0251	
				26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995	
				26b. CODE: N00014	

AWARD NO. N00014-12-1-0229		<b>AWARD/MODIFICATION</b>		MODIFICATION NO. P00003	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment					
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>					
Full Delegation					
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(1)					
(2)					
(3)					
(4)					
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See block #23a		Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11			1 1 1 1
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218		Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298			1 1
See block #26a		Report of Inventions and Subcontracts - DD 882			1
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320		Final Technical Report Interim Research Performance Report (As Required) with SF298			1 1
32. FOR THE RECIPIENT			33. FOR THE UNITED STATES OF AMERICA		
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD			33a. SIGNATURE OF AWARDOFFICER  (b) (6)		
32b. NAME AND TITLE OF SIGNER		32c. DATE SIGNED		33b. NAME AND TITLE OF AWARDOFFICER Ellen Simonoff	
				33c. DATE SIGNED 03-JUN-13	


# FINANCIAL ACCOUNTING DATA SHEET - NAVY

[illegible]

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229		2. SPIN (CRITICAL)	3. MOD (CRITICAL) P00003	4. PR NUMBER 13PR02204-01	NAVY INTERNAL USE ONLY REF DOCIACRN	
5. CLINISIN	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION		8. AMOUNT (CRITICAL)		
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				PAGE TOTAL	\$ .00	
				GRAND TOTAL	\$ .00	
PREPARED/AUTHORIZED BY:		COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE				
DATE:		BY _____ for COMPTROLLER, ONR CONTRACT REVIEWED DATE:				

<div>AWARD NO. N00014-12-1-0229</div>	<div>SPECIAL REQUIREMENTS</div>	<div>MODIFICATION NO. P00003</div>	
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		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995																									
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300																									
4. AWARD NO.: N00014-12-1-0229		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:																									
		5. MODIFICATION NO.: P00002		6. MODIFICATION TYPE: Increment		7. PR NO.: 13PR02204-00																							
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A	10. PROPOSAL DATE: 27-SEP-11	11. ACTIVITY TYPE:	12. PROGRAM TYPE: onr																								
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15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires																													
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19. ACCOUNTING AND APPROPRIATION DATA: See attached Financial Accounting Data Sheet (s)																													
20a. PRINCIPAL INVESTIGATOR/RECIPIENT TECHNICAL REPRESENTATIVE: DEREK R LOVLEY		21. TECHNICAL REPRESENTATIVE 21a. NAME: Linda A. Chrisey 21c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		21b. CODE: ONR 342																									
20b. TELEPHONE NUMBER: (413) 5459651	20c. EMAIL ADDRESS: dlovley@microbio.umass.edu	21d. TELEPHONE NUMBER: (703) 696-4504	21e. EMAIL ADDRESS: CHRISL@ONR.NAVY.MIL																										
22. AWARDING OFFICE CONTACT 22a. NAME: Elizabeth Ford 22c. ADDRESS: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995		22b. CODE: ONR BD025		23a. ADMINISTRATIVE OFFICE: ONR REG BOSTON N62879 495 SUMMER STREET ROOM 627 BOSTON, MA 02210-2109 PHONE: (617) 753-3283 FAX: (617) 753-4605																									
22d. TELEPHONE NUMBER: (703) 696-2576	22e. EMAIL ADDRESS: FORDE@ONR.NAVY.MIL		23b. CODE: N62879																										
24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25a. PAYING OFFICE: DFAS COLUMB-NAVY ACQ HQ0251 COLUMBUS, OH 43213		25b. CODE: HQ0251	26a. PATENT OFFICE: Office of Naval Research ATTN: ONR BDCC One Liberty Center 875 North Randolph Street, Suite 1425 Arlington, VA 22203-1995																								
				26b. CODE: N00014																									

AWARD NO. N00014-12-1-0229	<b>AWARD/MODIFICATION</b>	MODIFICATION NO. P00002	
27. SPECIAL INSTRUCTIONS: See "Special Requirements" Attachment			
28. DELEGATIONS: The administration duties listed below have been delegated to the administrative office (block 23a). Upon request the awarding office contact (block 22) will make their full text available. Please direct questions to the contacts @: <a href="http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx">http://www.onr.navy.mil/Contracts-Grants/Regional-Contacts.aspx</a>			
Full Delegation			
29. TERMS AND CONDITIONS: The following terms and conditions are incorporated herein by reference with the same force and effect as if they were given in full text. Upon request the awarding office contact named in block 22 will make their full text available, or they can be found as described below.			
DOCUMENT The following documents may be found at: <a href="http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx">http://www.onr.navy.mil/Contracts-Grants/submit-proposal/grants-proposal/grants-terms-conditions.aspx</a>  UAAC Acceptance C November 2003 Agency Specific February 2011 UAWA Award A November 2003 Core June 2011			
30. OPTIONS	OPTION NO.	AMOUNT	PERIOD
(1)			
(2)			
(3)			
(4)			
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ADDRESSEE	REPORT TYPE		COPIES
See block #21	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298		1 1
See block #23a	Report of Inventions and Subcontracts - DD 882 Final Technical Report Interim Research Performance Report (As Required) Final Federal Financial Status Report - SF425 - Including Line Item 11		1 1 1 1
Defense Technical Information Center 8725 John J Kingman Road Ste 0944 Fort Belvoir, VA 22060-6218	Final Technical Report with SF298 Interim Research Performance Report (As Required) with SF298		1 1
See block #26a	Report of Inventions and Subcontracts - DD 882		1
Naval Research Laboratory ATTN: CODE 5596 4555 Overlook Avenue SW Washington, DC 20375-5320	Final Technical Report Interim Research Performance Report (As Required) with SF298		1 1
32. FOR THE RECIPIENT		33. FOR THE UNITED STATES OF AMERICA	
32a. SIGNATURE OF PERSON AUTHORIZED TO SIGN  N/A - SIGNATURE NOT REQUIRED ON THIS AWARD		33a. SIGNATURE OF AWARDOFFICER  (b) (6)	
32b. NAME AND TITLE OF SIGNER	32c. DATE SIGNED	33b. NAME AND TITLE OF AWARDOFFICER Ellen Simonoff	33c. DATE SIGNED 27-NOV-12



## FINANCIAL ACCOUNTING DATA SHEET - NAVY

FINANCIAL ACCOUNTING DATA SHEET - NAVY												
1. CONTRACT NUMBER (CRITICAL)		2. SPIN (CRITICAL)		3. MOD (CRITICAL)		4. PR NUMBER						
N00014-12-1-0229		P00002		P00002		13PR02204-00						
6. LINE OF ACCOUNTING												
A. ACNRN (CRITICAL)	B. APPROPRIATION (CRITICAL)	C. SUBHEAD (CRITICAL)	D. OBJ CLA	E. PARM	F. RFM	G. SA	H. AAA (CRITICAL)	I. IT	J. PAA			
K. COST CODE												
PROJ UNIT MCC & SUF												
PDLI												
7.												
AMOUNT (CRITICAL)												
NAVY INTERNAL USE ONLY REF DOC/ACRN												
AB	1731319	W1AE	410	RA	349	0	068342	2D	000000	00000 000 5120	\$154,972.00	PR#13PR02204-00 FRC:4512
PAGE TOTAL										\$154,972.00		
GRAND TOTAL										\$154,972.00		

PREPARED/AUTHORIZED BY:

DATE:

COMPTROLLER APPROVAL:

FOR FISCAL DATA AND SIGNATURE

BY


DATE:

for COMPTROLLER, ONR CONTRACT REVIEWED

# FINANCIAL ACCOUNTING DATA SHEET – NON-NAVY DoD ACTIVITIES

1. CONTRACT NUMBER (CRITICAL) N00014-12-1-0229		2. SPIN (CRITICAL)	3. MOD (CRITICAL) P00002	4. PR NUMBER 13PR02204-00	8.		NAVY INTERNAL USE ONLY REF DOC/ACRN
5. CLIN/SIN (CRITICAL)	6. ACRN (CRITICAL)	7. ACCOUNTING CITATION			AMOUNT (CRITICAL)		
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					PAGE TOTAL	\$ .00	
					GRAND TOTAL	\$ .00	
PREPARED/AUTHORIZED BY:					COMPTROLLER APPROVAL: FOR FISCAL DATA AND SIGNATURE BY _____ DATE: _____		
					for COMPTROLLER, ONR CONTRACT REVIEWED		

AWARD NO. N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00002	

		AWARD/ MODIFICATION		3a. ISSUED BY: Office of Naval Research 875 North Randolph Street Arlington, VA 22203-1995	
		1. INSTRUMENT TYPE: Grant		3b. CFDA: 12.300	
4. AWARD NO.: N00014-12-1-0229		2. AUTHORITY: 10 USC 2358, 31 USC 6304		3c. DUNS NUMBER:	
		5. MODIFICATION NO.: P00001			
8. ACTIVITY/AGENCY PROPOSAL NO.: N/A		9. RECIPIENT PROPOSAL NO.: N/A		7. PR NO.: 12PR03939-01	
				10. PROPOSAL DATE: 27-SEP-11	
13. ISSUED TO 13a. ADDRESS: UNIVERSITY OF MASSACHUSETTS AMHERST OFFICE OF GRANT AND CONTRACT ADMINISTRATION 70 BUTTERFIELD TERRACE AMHERST, MA 01003-9333		13b. CAGE: 1KVP4		13c. EDI/EFT NUMBER: 7108AB	
13d. BUSINESS OFFICE CONTACT: CAROL P. SPRAGUE		13e. TELEPHONE NUMBER: (413) 5450698		13f. EMAIL ADDRESS: sprague@resgs.umass.edu	
15. RESEARCH TITLE AND/OR DESCRIPTION OF PROJECT AND/OR PROPOSAL TITLE: Mechanisms Underlying the Metallic-Like Conductivity of Microbial Nanowires					
16. FUNDING		ACTIVITY/AGENCY SHARE		RECIPIENT SHARE	
PREVIOUSLY OBLIGATED:		\$50,000.00		\$50,000.00	
OBLIGATED BY THIS ACTION:		\$64,605.00		\$64,605.00	
TOTAL OBLIGATED ON AWARD:		\$114,605.00		\$114,605.00	
FUTURE FUNDING:		\$523,744.00		\$523,744.00	
GRANT TOTAL:		\$638,349.00		\$638,349.00	
17. CURRENT FUNDING PERIOD N/A THROUGH N/A					
18. PERIOD OF PERFORMANCE 01-JAN-12 THROUGH 31-DEC-14					
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24. SUBMIT PAYMENT REQUEST TO: Same as block #23a		25b. CODE: HQ0251		26b. CODE: N00014	

AWARD NO. N00014-12-1-0229	<b>AWARD/MODIFICATION</b>	MODIFICATION NO. P00001																															
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32b. NAME AND TITLE OF SIGNER	32c. DATE SIGNED	33b. NAME AND TITLE OF AWARD OFFICER Ellen Simonoff	33c. DATE SIGNED 19-MAR-12																														

## FINANCIAL ACCOUNTING DATA SHEET - NAVY

[illegible]



AWARD NO. N00014-12-1-0229	<b>SPECIAL REQUIREMENTS</b>	MODIFICATION NO. P00001
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